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Display **Summary** Show: **20** Sort **Text** Send to **Text**

Text Version

Items 1-20 of 50

Page **1** of 3 Next

Entrez PubMed

Overview

Help | FAQ

Tutorial

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Human Crossveinless-2 is a novel inhibitor of bone morphogenetic proteins.
Biochem Biophys Res Commun. 2004 Mar 5;315(2):272-80.
PMID: 14766204 [PubMed - in process]

- ☐ **2:** [Batut J, Neant I, Leclerc C, Moreau M.](#) Related Articles, Link

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J Soc Biol. 2003;197(3):283-9 French.
PMID: 14708350 [PubMed - in process]

- ☐ **3:** [Pera EM, Ikeda A, Eivers E, De Robertis EM.](#) Related Articles, Link

Integration of IGF, FGF, and anti-BMP signals via Smad1 phosphorylation in neural induction.
Genes Dev. 2003 Dec 15;17(24):3023-8.
PMID: 14701872 [PubMed - indexed for MEDLINE]

- ☐ **4:** [Nakayama N, Han CY, Cam L, Lee JJ, Pretorius J, Fisher S, Rosenfeld R, Scully S, Nishinakamura R, Duryea D, Van G, Bolon B, Yokota T, Zhang K.](#) Related Articles, Link

A novel chordin-like BMP inhibitor, CHL2, expressed preferentially in chondrocytes of developing cartilage and osteoarthritic joint cartilage.
Development. 2004 Jan;131(1):229-40. Epub 2003 Dec 03.
PMID: 14660436 [PubMed - indexed for MEDLINE]

- ☐ **5:** [Hyvonen M.](#) Related Articles, Link










CHRD, a novel domain in the BMP inhibitor chordin, is also found in microbial proteins.
Trends Biochem Sci. 2003 Sep;28(9):470-3. Review.
PMID: 13678956 [PubMed - indexed for MEDLINE]

- ☐ **6:** [Blitz IL, Cho KW, Chang C.](#) Related Articles, Link

Twisted gastrulation loss-of-function analyses support its role as a BMP inhibitor during early Xenopus embryogenesis.
Development. 2003 Oct;130(20):4975-88.
PMID: 12952901 [PubMed - indexed for MEDLINE]

- ☐ **7:** [Pappano WN, Steiglitz BM, Scott IC, Keene DR, Greenspan DS.](#) Related Articles, Link

Use of Bmp1/Tll1 doubly homozygous null mice and proteomics to identify and validate in vivo substrates of bone morphogenetic protein 1/tolloid-like metalloproteinases.
Mol Cell Biol. 2003 Jul;23(13):4428-38.
PMID: 12808086 [PubMed - indexed for MEDLINE]

- ☐ **8:** [Wilkinson L, Kolle G, Wen D, Piper M, Scott J, Little M.](#) [Related Articles](#), [Link](#)
 **CRIM1 regulates the rate of processing and delivery of bone morphogenetic proteins to the cell surface.**
J Biol Chem. 2003 Sep 5;278(36):34181-8. Epub 2003 Jun 12.
PMID: 12805376 [PubMed - indexed for MEDLINE]
- ☐ **9:** [Aldred MA, Ginn-Pease ME, Morrison CD, Popkie AP, Gimm O, Hoang-Vu C, Krause U, Dralle H, Jhiang SM, Plass C, Eng C.](#) [Related Articles](#), [Link](#)
 **Caveolin-1 and caveolin-2, together with three bone morphogenetic protein-related genes, may encode novel tumor suppressors down-regulated in sporadic follicular thyroid carcinogenesis.**
Cancer Res. 2003 Jun 1;63(11):2864-71.
PMID: 12782592 [PubMed - indexed for MEDLINE]
- ☐ **10:** [Luo T, Lee YH, Saint-Jeannet JP, Sargent TD.](#) [Related Articles](#), [Link](#)
 **Induction of neural crest in *Xenopus* by transcription factor AP2alpha.**
Proc Natl Acad Sci U S A. 2003 Jan 21;100(2):532-7. Epub 2003 Jan 02.
PMID: 12511599 [PubMed - indexed for MEDLINE]
- ☐ **11:** [Kolle G, Jansen A, Yamada T, Little M.](#) [Related Articles](#), [Link](#)
 **In ovo electroporation of Crim1 in the developing chick spinal cord.**
Dev Dyn. 2003 Jan;226(1):107-11.
PMID: 12508231 [PubMed - indexed for MEDLINE]
- ☐ **12:** [Dale L, Evans W, Goodman SA.](#) [Related Articles](#), [Link](#)
 **Xolloid-related: a novel BMP1/Tolloid-related metalloprotease is expressed during early *Xenopus* development.**
Mech Dev. 2002 Dec;119(2):177-90.
PMID: 12464431 [PubMed - indexed for MEDLINE]
- ☐ **13:** [Hikasa H, Shibata M, Hiratani I, Taira M.](#) [Related Articles](#), [Link](#)
 **The *Xenopus* receptor tyrosine kinase Xror2 modulates morphogenetic movements of the axial mesoderm and neuroectoderm via Wnt signaling.**
Development. 2002 Nov;129(22):5227-39.
PMID: 12399314 [PubMed - indexed for MEDLINE]
- ☐ **14:** [Vonica A, Gumbiner BM.](#) [Related Articles](#), [Link](#)
 **Zygotic Wnt activity is required for Brachyury expression in the early *Xenopus laevis* embryo.**
Dev Biol. 2002 Oct 1;250(1):112-27.
PMID: 12297100 [PubMed - indexed for MEDLINE]
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 **Involvement of NLK and Sox11 in neural induction in *Xenopus* development.**
Genes Cells. 2002 May;7(5):487-96.
PMID: 12047350 [PubMed - indexed for MEDLINE]
- ☐ **16:** [Garcia Abreu J, Coffinier C, Larrain J, Oelgeschlager M, De Robertis EM.](#) [Related Articles](#), [Link](#)
 **Chordin-like CR domains and the regulation of evolutionarily conserved extracellular signaling systems.**
Gene. 2002 Apr 3;287(1-2):39-47. Review.
PMID: 11992721 [PubMed - indexed for MEDLINE]

- ☐ 17: [Oostendorp RA, Medvinsky AJ, Kusadasi N, Nakayama N, Harvey K, Orelia C, Ottersbach K, Covey T, Ploemacher RE, Saris C, Dzierzak E.](#) Related Articles, Link



Embryonal subregion-derived stromal cell lines from novel temperature-sensitive SV40 T antigen transgenic mice support hematopoiesis.

J Cell Sci. 2002 May 15;115(Pt 10):2099-108.

PMID: 11973351 [PubMed - indexed for MEDLINE]

- ☐ 18: [Larain J, Oelgeschlager M, Ketpura NI, Reversade B, Zakin L, De Robertis EM.](#) Related Articles, Link



Proteolytic cleavage of Chordin as a switch for the dual activities of Twisted gastrulation in BMP signaling.

Development. 2001 Nov;128(22):4439-47.

PMID: 11714670 [PubMed - indexed for MEDLINE]

- ☐ 19: [Pera EM, Wessely O, Li SY, De Robertis EM.](#) Related Articles, Link



Neural and head induction by insulin-like growth factor signals.

Dev Cell. 2001 Nov;1(5):655-65.

PMID: 11709186 [PubMed - indexed for MEDLINE]

- ☐ 20: [Millet C, Lemaire P, Orsetti B, Guglielmi P, Francois V.](#) Related Articles, Link



The human chordin gene encodes several differentially expressed spliced variants with distinct BMP opposing activities.

Mech Dev. 2001 Aug;106(1-2):85-96.

PMID: 11472837 [PubMed - indexed for MEDLINE]

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Items 1-20 of 50

Page **1** of 3 Next

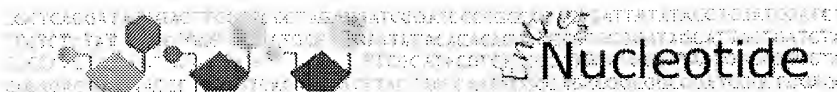
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Display **Summary** Show: **20** Send to **Text**

Items 1-20 of 38

Page **1** of 2 Next

Entrez Nucleotide
Help | FAQ

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revision history

LinkOut

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BLAST

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Mus musculus chordin-like 1, mRNA (cDNA clone MGC:76607
IMAGE:30102312), complete cds
gi|44890680|gb|BC066832.1|[44890680]
- ☐ **2: NT_005612** [Links](#)
Homo sapiens chromosome 3 genomic contig
gi|37550867|ref|NT_005612.14|Hs3_5769[37550867]
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Homo sapiens chromosome X genomic contig
gi|37546473|ref|NT_025319.14|HsX_25475[37546473]
- ☐ **4: NT_033927** [Links](#)
Homo sapiens chromosome 11 genomic contig
gi|37541321|ref|NT_033927.6|Hs11_34082[37541321]
- ☐ **5: NM_003741** [Links](#)
Homo sapiens chordin (CHRD), transcript variant 1, mRNA
gi|30089979|ref|NM_003741.2|[30089979]
- ☐ **6: NM_012465** [Links](#)
Homo sapiens tolloid-like 2 (TLL2), mRNA
gi|22547222|ref|NM_012465.2|[22547222]
- ☐ **7: NM_012464** [Links](#)
Homo sapiens tolloid-like 1 (TLL1), mRNA
gi|22547220|ref|NM_012464.3|[22547220]
- ☐ **8: NM_009755** [Links](#)
Mus musculus bone morphogenetic protein 1 (Bmp1), mRNA
gi|42734446|ref|NM_009755.2|[42734446]
- ☐ **9: NM_177979** [Links](#)
Homo sapiens chordin (CHRD), transcript variant 3, mRNA
gi|30089977|ref|NM_177979.1|[30089977]

- ☐ **10:** [NM_177978](#)

Homo sapiens chordin (CHRD), transcript variant 2, mRNA
gi|30089975|ref|NM_177978.1|[30089975]

[Links](#)
- ☐ **11:** [NM_131360](#)

Danio rerio bone morphogenetic protein 2b (bmp2b), mRNA
gi|35215299|ref|NM_131360.1|[35215299]

[Links](#)
- ☐ **12:** [NM_131010](#)

Danio rerio bone morphogenetic protein 1 (bmp1), mRNA
gi|18859498|ref|NM_131010.1|[18859498]

[Links](#)
- ☐ **13:** [NM_130973](#)

Danio rerio chordin (chd), mRNA
gi|18858412|ref|NM_130973.1|[18858412]

[Links](#)
- ☐ **14:** [NM_008711](#)

Mus musculus noggin (Nog), mRNA
gi|7110674|ref|NM_008711.1|[7110674]

[Links](#)
- ☐ **15:** [NM_009893](#)

Mus musculus chordin (Chrd), mRNA
gi|6753417|ref|NM_009893.1|[6753417]

[Links](#)
- ☐ **16:** [NM_009390](#)

Mus musculus tolloid-like (Tll), mRNA
gi|6678362|ref|NM_009390.1|[6678362]

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- ☐ **17:** [NT_082359](#)

Mus musculus chromosome 16 genomic contig, Celera Mmul6
gi|38080567|ref|NT_082359.1|Mmul6_82356_32[38080567]

[Links](#)
- ☐ **18:** [NT_039624](#)

Mus musculus chromosome 16 genomic contig, strain C57BL/6J
gi|38080009|ref|NT_039624.2|Mmul6_39664_32[38080009]

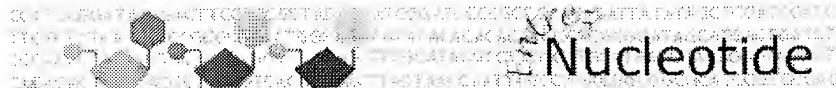
[Links](#)
- ☐ **19:** [NW_047358](#)

Rattus norvegicus chromosome 11 WGS supercontig
gi|34869997|ref|NW_047358.1|Rn11_1878[34869997]

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- ☐ **20:** [AY358926](#)

Homo sapiens clone DNA35917 chordin (UNQ217) mRNA, complete cds
gi|37182969|gb|AY358926.1|[37182969]

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Items 21-38 of 38

Previous Page **2** of 2

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Homo sapiens clone DNA64902 chordin Like (UNQ765) mRNA, complete cds
gi|37182166|gb|AY358522.1|[37182166]
- ☐ **22: [AK007577](#)** [Links](#)
Mus musculus 10 day old male pancreas cDNA, RIKEN full-length enriched library, clone:1810022C01 product:CHORDIN-RELATED PROTEIN NEURALIN-2 homolog [Mus musculus], full insert sequence
gi|12841206|dbj|AK007577.1|[12841206]
- ☐ **23: [AX235836](#)** [Links](#)
Sequence 4 from Patent WO0164885
gi|15795739|emb|AX235836.1||pat|WO|0164885|4|[15795739]
- ☐ **24: [AX235833](#)** [Links](#)
Sequence 1 from Patent WO0164885
gi|15795737|emb|AX235833.1||pat|WO|0164885|1|[15795737]
- ☐ **25: [AX175130](#)** [Links](#)
Sequence 11 from Patent WO0142465
gi|14598545|emb|AX175130.1||pat|WO|0142465|11|[14598545]
- ☐ **26: [AX175126](#)** [Links](#)
Sequence 7 from Patent WO0142465
gi|14598543|emb|AX175126.1||pat|WO|0142465|7|[14598543]
- ☐ **27: [AX175123](#)** [Links](#)
Sequence 4 from Patent WO0142465
gi|14598541|emb|AX175123.1||pat|WO|0142465|4|[14598541]
- ☐ **28: [AX175120](#)** [Links](#)
Sequence 1 from Patent WO0142465
gi|14598539|emb|AX175120.1||pat|WO|0142465|1|[14598539]
- ☐ **29: [AF338222](#)** [Links](#)
Mus musculus chordin-related protein neuralin-2 mRNA, complete cds
gi|13957540|gb|AF338222.1|AF338222[13957540]

- ☐ **30:** [AF305714](#) Links
Mus musculus neuralin mRNA, complete cds
gi|11037011|gb|AF305714.1|AF305714[11037011]
- ☐ **31:** [AF136635](#) Links
Homo sapiens chordin gene, partial cds, cr4 repeat
gi|7839319|gb|AF136635.1|AF136632S4[7839319]
- ☐ **32:** [AF136634](#) Links
Homo sapiens chordin gene, partial cds, cr3 repeat
gi|7839318|gb|AF136634.1|AF136632S3[7839318]
- ☐ **33:** [AF136633](#) Links
Homo sapiens chordin gene, partial cds, cr2 repeat
gi|7839317|gb|AF136633.1|AF136632S2[7839317]
- ☐ **34:** [AF136632](#) Links
Homo sapiens chordin gene, partial cds, cr1 repeat
gi|7839316|gb|AF136632.1|AF136632S1[7839316]
- ☐ **35:** [AH009297](#) Links
Homo sapiens chordin, chordin, chordin, and chordin genes, partial cds
gi|7839315|gb|AH009297.1|SEG_AF136632S[7839315]
- ☐ **36:** [AF096276](#) Links
Mus musculus chordin mRNA, complete cds
gi|4406185|gb|AF096276.1|AF096276[4406185]
- ☐ **37:** [AF031230](#) Links
Gallus gallus chordin mRNA, complete cds
gi|2826738|gb|AF031230.1|AF031230[2826738]
- ☐ **38:** [AF022927](#) Links
Xenopus laevis Zic-related-1 protein (zic-1) mRNA, complete cds
gi|3064133|gb|AF022927.1|AF022927[3064133]

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Items 21-38 of 38 Previous **Page** **2** of 2

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